

# PROGRAM

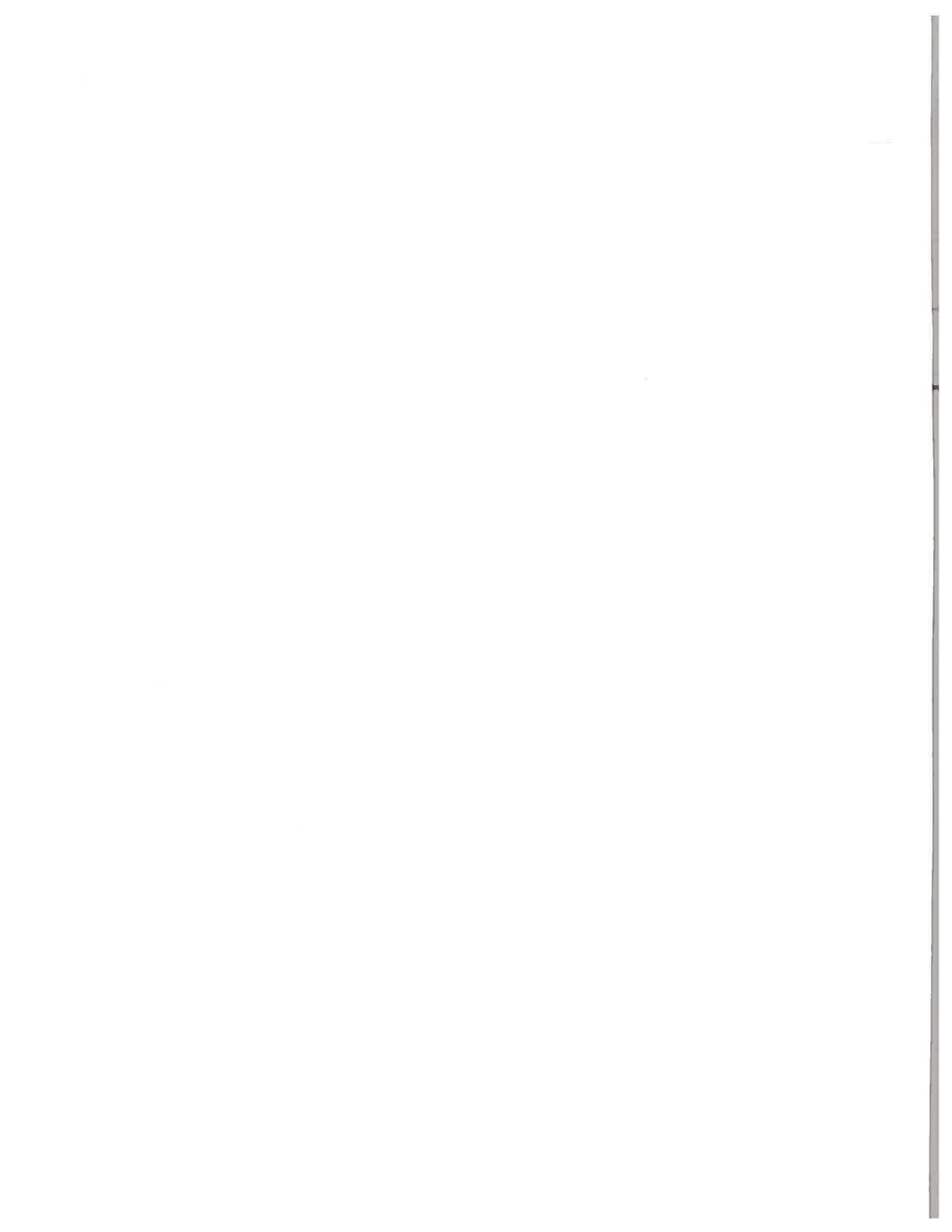
THE RE-EVALUATION OF EXISTING VALUES  
AND THE SEARCH FOR ABSOLUTE VALUES



## ICUS

THE SEVENTH INTERNATIONAL CONFERENCE  
ON THE  
UNITY OF THE SCIENCES

NOVEMBER 24-26, 1978  
SHERATON-BOSTON HOTEL  
BOSTON, MASSACHUSETTS



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## WHAT IS "ICUS"?

"ICUS" is an acronym for the annual "International Conference on the Unity of the Sciences." Sponsored by the International Cultural Foundation, Inc., this unique conference convenes distinguished scholars and scientists from around the globe and from every field of study to pursue timely and significant issues of worldwide concern. Conference themes have been developed around the search for a central standard of value to solve the crisis of fragmentation of the sciences in the face of pressing global problems.

What makes this conference unique? ICUS is the only conference of its kind which is truly international, interdisciplinary, and concerned with the world as a whole. There is very little institutional support for a meeting of such scope among most scientific and educational organizations with more limited concerns, despite a very real need.

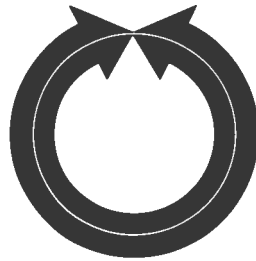
And what is this particular need to which ICUS responds? Dr. Alexander King, Chairman of the International Federation of Institutes for Advanced Study and Co-Founder of the Club of Rome, explains it as follows:

"ICUS is the only world occasion where scholars from diverse disciplines can come together and discuss mutual interactions in their work as a multidisciplinary attack on global problems."

Over 400 scholars and scientists from 60 nations will gather this weekend in Boston for the Seventh ICUS. Under the general theme of "The Re-Evaluation of Existing Values and the Search for Absolute Values," they will advance the pursuit for answers to the perplexing problems of our age.



Fourth ICUS Opening Plenary Session, New York, 1975



ICUS

## PURPOSE OF ICUS

Science has developed with the ideal of increasing human knowledge, and indeed, has contributed greatly to human prosperity. Mankind, however, is presently confronted with grave dangers resulting from the often unintended, but harmful side effects of technological applications of scientific knowledge; environmental pollution, populations and cities under stress, global economic inequalities and instabilities, shortages of energy and other natural resources, and the threat of nuclear disaster.

Underlying these ecological dangers is a fundamental crisis of values—the loss of confidence in traditional religious beliefs and philosophies as reliable standards of moral and ethical behavior. Some would argue that scientific progress has actually precipitated our present moral dilemma. What emerges is the growing recognition of the critical importance of the search for a more integrated understanding which harmonizes the diverse fields of human knowledge with a guiding standard of value.

As scholars and scientists pursue their specialized fields of study, we ask: to what extent do such pursuits contribute to solving the moral and social crisis of our time? Our intellectual endeavors will solve human problems more effectively if we can agree on a central standard of value to guide the theoretical quest and practical application of scientific knowledge. Without such agreement, our knowledge may lead to self-destruction. Therefore, the purpose of ICUS is to provide an opportunity for scholars and scientists to reflect on the nature of knowledge and to discuss the relationship of science to the standard of value.

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The symbol of ICUS represents the dynamics of religious and scientific knowledge, or the subjective and the objective.

# SEVENTH ICUS CHAIRMAN'S BOARD

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**Eugene P. Wigner**  
Professor of Physics  
Princeton University, USA

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**Sir John Eccles**  
Distinguished  
Emeritus Professor  
SUNY-Buffalo  
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Florida State University, USA

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International  
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14. **Ali A. Mazrui**, Professor of Political Science  
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15. **Farhang Mehr**, Chancellor  
Pahlavi University, Shiraz, Iran
16. **Kenneth Mellanby**, Zoologist  
Institute of Terrestrial Ecology, UK
17. **Sir Charles Moses**, Past Secretary-General  
Asian Broadcasting Union, Sydney, Australia
18. **Yuval Ne'eman**, Professor of Physics  
Tel Aviv University, Israel
19. **Gerard Radnitzky**, Professor of Philosophy  
University of Trier, West Germany
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Karolinska Institute, Stockholm, Sweden
21. **Herman Wold**, Professor of Statistics  
University of Uppsala, Sweden
22. **Pyong-Do Yi**, Professor Emeritus  
Seoul National University, Korea; President  
Korean National Academy of Sciences

# AGENDA

23 NOVEMBER			
Thursday	1:00 PM	Thanksgiving Dinner and Orientation	Grand Ballroom (enter through Constitution Room)
	7:30 PM	General Reception	Grand Ballroom
24 NOVEMBER			
Friday	7:45 AM	Breakfast	Independence/Liberty
	9:00 AM	Opening Plenary Session Founder's Address— Reverend Sun Myung Moon Chairman's Address—Eugene P. Wigner Committee I Chairman—Richard L. Rubenstein Committee II Chairman—Daniel Lerner Committee III Chairman—Kenneth Mellanby Committee IV Chairman—Frederick Seitz Moderator—R.V. Jones	Grand Ballroom (enter through Republic Corridor)
	10:15 AM	Break	
	11:00 AM	Committees Meet—Group A Presentations Committee I (see p. 8) Committee II (see p. 12) Committee III (see p. 16) Committee IV (see p. 20)	Republic Constitution Fairfax Commonwealth
	1:00 PM	Luncheon	Grand Ballroom (enter through Independence Room)
	3:00 PM	Committees Meet—Group B Presentations Committee I (see p. 9) Committee II (see p. 13) Committee III (see p. 17) Committee IV (see p. 21)	Republic Constitution Fairfax Commonwealth
	5:00 PM	Break	
	5:30 PM	Committee Meetings Continued—Group B	
	7:00 PM	Dinner	Grand Ballroom
	8:15 PM	Discussion—Committee Chairmen each chair voluntary joint discussion of their respective Groups A & B after brief reports from Group A & B Chairmen.	
	9:30 PM	Break	



25 NOVEMBER Saturday	7:45 AM	Breakfast	Grand Ballroom
	9:00 AM	Committees Meet—Group C Presentations Committee I (see p. 10) Committee II (see p. 14) Committee III (see p. 18) Committee IV (see p. 22)	Republic Constitution Fairfax Commonwealth
	10:30 AM	Break	
	11:15 AM	Committee Meetings Continued—Group C	
	12:30 PM	Luncheon	Grand Ballroom
	2:30 PM	Committees Meet—Group D Presentations Committee I (see p. 11) Committee II (see p. 15) Committee III (see p. 19) Committee IV (see p. 23)	Republic Constitution Fairfax Commonwealth
	4:30 PM	Break	
	5:15 PM	Committee Meetings Continued—Group D	
	6:30 PM	Dinner	Independence/Liberty
	7:45 PM	Discussion—Committee Chairmen each chair voluntary joint discussions of their respective Groups C & D after brief reports from Group C & D Chairmen.	
26 NOVEMBER Sunday	9:00 PM	Break	
	8:45 AM	Breakfast	Independence/Republic
	10:00 AM	Multidisciplinary Discussion Groups (see pp. 24-29)	
	11:30 AM	Break	
	12:00 PM	Discussion Groups Continued	
	1:00 PM	Luncheon	Independence/Republic
	2:30 PM	Concluding Plenary Session “Technology and Freedom” Alvin M. Weinberg, Director Institute for Energy Analysis Oak Ridge, Tennessee, USA “The Brain and the Human Person” Sir John Eccles Nobel Laureate in Physiology Locarno, Switzerland	Grand Ballroom (enter through Constitution Room)
	4:00 PM	Break	
	7:00 PM	Farewell Banquet hosted by the Reverend and Mrs. Sun Myung Moon	Grand Ballroom
	27 NOVEMBER Monday	7:45 AM	Breakfast

# COMMITTEE I

## RELIGION AND PHILOSOPHY

Republic Room (2nd Floor)

CHAIRMAN  
RICHARD L. RUBENSTEIN

GROUP A: REDEMPTION IN CONTEMPORARY THEOLOGY  
24 NOVEMBER, FRIDAY—11:00 a.m.



CHAIRMAN: GABRIEL VAHANIAN  
Jeannette K. Watson Professor of Religion  
Syracuse University, Strasbourg, France

### Topics and Speakers (A)

#### “Redemption Today: Back to the New Testament?”

SPEAKER: Etienne Trocmé, President and Professor of New Testament Exegesis  
Université des Sciences Humaines, Strasbourg, France

COMMENTATOR: Warren Clarnette, Editor of CHURCH & NATION  
Uniting Church Center, Melbourne, Australia

COMMENTATOR: Mohamed Al-Nowaihi, Professor of Arabic Language and Literature  
The American University in Cairo, Egypt

#### “Marx and the Question of Salvation”

SPEAKER: Maurice Boutin, Professor of Fundamental Theology  
University of Montreal, Canada

COMMENTATOR: Herbert Richardson, Professor of Religious Studies  
St. Michael's College, University of Toronto, Canada

#### “Redemption: A Cross-Cultural Perspective at the Making of Modern Theology”

SPEAKER: Joseph D. Ben-Dak, Compton Professor of Peace Studies  
School of International Training, Vermont, USA;  
Professor of International Relations, University of Haifa, Israel

COMMENTATOR: Jacques Waardenburg, Professor of Phenomenology of Religion  
and Islamic Studies, Rijksuniversitet Utrecht, Netherlands

COMMENTATOR: Claude Geffré, Professor of Theology  
Catholic Institute in Paris, France

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**GROUP B: ASPECTS OF RELIGIOUS CONSCIOUSNESS**

24 NOVEMBER, FRIDAY—3:00 p.m.



**CHAIRMAN: EILEEN BARKER**

Lecturer in Sociology of Religion, London School  
of Economics and Political Science, UK

**Topics and Speakers (B)**

**“Effects of Consciousness on the Physical World—a Monistic View”**

**SPEAKER:** Ted Bastin, Research Physicist  
West Wickham, Cambridgeshire, UK

**COMMENTATOR:** George Sudarshan, Professor of Physics and Director  
Center for Particle Theory, University of Texas at Austin, USA/India

**“Aspects of the Religious Consciousness”**

**SPEAKER:** Edward A. Robinson, Director of Religious Experience Research Unit  
Manchester College, Oxford, UK

**COMMENTATOR:** David Hay, Director of Religious Experience Research Project  
University of Nottingham, UK

**“The Existence of Consciousness”**

**SPEAKER:** Eugene P. Wigner, Professor of Physics  
Princeton University, USA

**COMMENTATOR:** R.J. Zwi Werblowsky, Professor of Comparative Religion  
The Hebrew University of Jerusalem, Israel

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**GROUP C: DEATH AND SUICIDE IN CONTEMPORARY THOUGHT**  
25 NOVEMBER, SATURDAY—9:00 a.m.



**CHAIRMAN: WALTER KAUFMANN**  
Professor of Philosophy  
Princeton University, USA

**Topics and Speakers (C)**

**“The Anatomy of Death”**

**SPEAKER:** Ninian Smart, Professor of Religious Studies  
University of California at Santa Barbara, USA;  
Professor of Religious Studies, Furness College  
University of Lancaster, UK

**COMMENTATOR:** Alfred Alvarez, Author  
Poet and Journalist, The Observer, London, UK

**“Death as a Source of Philosophy”**

**SPEAKER:** Ben-Ami Scharfstein, Professor of Philosophy  
Tel-Aviv University, Israel

**COMMENTATOR:** Peter Munz, Professor of History  
Victoria University of Wellington, New Zealand

**“The Art of Suicide”**

**SPEAKER:** Joyce Carol Oates, Visiting Professor of English  
Creative Writing Program, Princeton University, USA

**COMMENTATOR:** Ivan Soll, Professor of Philosophy  
University of Wisconsin, Madison, USA

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**GROUP D: FREEDOM AND SOURCES OF AUTHORITY**  
**25 NOVEMBER, SATURDAY—2:30 p.m.**



**CHAIRMAN: JUDE P. DOUGHERTY**  
 Dean of School of Philosophy  
 The Catholic University of America  
 Washington, D.C., USA

**Topics and Speakers (D)**

**“The Reciprocity of Liberty and Authority”**

**SPEAKER:** Andrew J. Reck, Chairman, Department of Philosophy  
 Tulane University, New Orleans, LA, USA

**COMMENTATOR:** Richard L. Barber, Professor of Philosophy  
 University of Louisville, KY, USA

**“Freedom and Authority”**

**SPEAKER:** Gerald McCool, S.J., Chairman, Department of Philosophy  
 Fordham University, New York, USA

**COMMENTATOR:** J.P. Mayer, Director  
 Tocqueville Research Center  
 University of Reading, UK

**“From Authority to Absolute Dominion in Our Administrated World”**

**SPEAKER:** Klaus Rohmann, S.T.D., Diocese of Essen  
 Essen, West Germany

**COMMENTATOR:** Frederick E. Sontag, Robert C. Denison Professor of Philosophy  
 Pomona College, Claremont, CA, USA

# COMMITTEE II THE SOCIAL SCIENCES

Constitution Room (2nd Floor)

CHAIRMAN  
DANIEL LERNER

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GROUP A: YOUTH CHALLENGE TO EXISTING IDEAS AND INSTITUTIONS  
24 NOVEMBER, FRIDAY—11:00 a.m.



CHAIRMAN: RENÉ BERGER  
Director, Museum of Fine Arts  
Lausanne, Switzerland

## Topics and Speakers (A)

### “Youth Revolt and Asian Values”

SPEAKER: Selo Soemardjan, Professor of Sociology  
University of Indonesia, Djakarta

### “Youth Revolt and Socialist Values”

SPEAKER: Henry O. Hart, Director, Audience and Public Opinion Research Department  
Radio Free Europe/Radio Liberty Inc., Munich, West Germany/ USA

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### “The Revolt Against Values”

SPEAKER: Alexandre Marc, Founder and Permanent Delegate  
International Center of European Education, Nice, France

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**GROUP B: DEMOCRATIC CONTROL OF ANTI-DEMOCRATIC ACTION**  
 24 NOVEMBER, FRIDAY—3:00 p.m.



**CHAIRMAN: OSCAR HANDLIN**  
 Carl H. Pforzheimer Professor of History  
 Harvard University, Cambridge, MA, USA

**Topics and Speakers (B)**

**“The Unlearning of Violence”**

**SPEAKER:** Franco Ferracuti, Professor of Criminological Medicine  
 and Forensic Psychiatry, University of Rome, Italy

**“The Development of Violence as a Feature of Turkish Political Life”**

**SPEAKER:** Ilter Turan, Professor of Political Science  
 Istanbul University, Turkey

**“Nonviolent Resolution of Conflict Situations”**

**SPEAKER:** James Farmer, Executive Director  
 Coalition of American Public Employees (CAPE);  
 Founder, Congress of Racial Equality (CORE), Washington, D.C., USA

**GENERAL**

**COMMENTATOR:** Farhang Mehr, Chancellor  
 Pahlavi University, Shiraz, Iran

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**GROUP C: VALUES AND DEVELOPMENT—FOCUS ON THE MIDDLE EAST**  
25 NOVEMBER, SATURDAY—9:00 a.m.



**CHAIRMAN: ABBA P. LERNER**  
Professor of Economics  
The Florida State University  
Tallahassee, FL, USA

**Topics and Speakers (C)**

**“Values and Development—Focus on the Middle East”**

**SPEAKER:** Kamel Abu Jaber, Dean of Faculty of Economics and Commerce  
University of Jordan, Amman

**“Disowning the Past?”**

**SPEAKER:** Edwin Terry Prothro, Director of Center for Behavioral Research  
The American University of Beirut, Lebanon/USA

**“Values and Development in the Contemporary Islamic World”**

**SPEAKER:** Seyyed Hossein Nasr, Director  
Imperial Iranian Academy of Philosophy, Tehran, Iran

**“The Global Economic Order and the Poor Villages: The Issue of Mediating Structures”**

**SPEAKER:** Elliott P. Skinner, Franz Boas Professor of Anthropology  
Columbia University, New York City, USA



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**GROUP D: WORLD FUTURES—WHICH WAYS ARE FORWARD?**  
**25 NOVEMBER, SATURDAY—2:30 p.m.**



**CHAIRMAN: AURELIO PECCEI**  
 Founder and President  
 The Club of Rome, Italy

**Topics and Speakers (D)**

**INTRODUCTORY**

**REMARKS:** Alexander Szalai, Professor of Sociology  
 Karl Marx University of Economic Sciences, Budapest, Hungary

**SPEAKER:** Ali A. Mazrui, Director and Professor of Political Science  
 Center for Afroamerican and African Studies  
 University of Michigan, USA/Kenya

**SPEAKER:** Kasim Gulek, Former Prime Minister  
 Ankara, Turkey

**GENERAL**

**COMMENTATOR:** Martin F. Herz, Professor of Diplomacy  
 Ethics and Public Policy Center  
 Georgetown University, Washington, D.C., USA

# COMMITTEE III THE LIFE SCIENCES

Fairfax Room (3rd Floor)

CHAIRMAN  
KENNETH MELLANBY

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## GROUP A: ETHICAL IMPLICATIONS OF BIOLOGY

24 NOVEMBER, FRIDAY—11:00 a.m.



CHAIRMAN: J.W.S. PRINGLE  
Linacre Professor of Zoology  
University of Oxford, UK

### Topics and Speakers (A)

#### “Genetics and Society”

SPEAKER: G. Ainsworth Harrison, Professor of Biological Anthropology  
Oxford University, UK

COMMENTATOR: Paul T. Baker, Professor of Anthropology  
The Pennsylvania State University, University Park, PA, USA

#### “Ethical Implications of Ecology”

SPEAKER: Stuart B. Hill, Major Professor of Zoology  
McGill University, Montreal, Canada

COMMENTATOR: Khalid Hamid Sheikh, Associate Professor and Chairman  
Department of Botany, University of the Punjab, Lahore, Pakistan

#### “Behavioral Dimensions for the Operation of Intelligence”

SPEAKER: M.R.A. Chance, Professor of Ethology  
Uffculme Clinic, University of Birmingham, UK

COMMENTATOR: Anthony V.S. de Reuck, Head of International Relations Studies  
Department of Linguistics and International Studies  
University of Surrey, UK

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**GROUP B: GLOBAL HEALTH CARE**

24 NOVEMBER, FRIDAY—3:00 p.m.



**CHAIRMAN: JULIAN L. AMBRUS**  
 Professor of Internal Medicine  
 and Experimental Pathology  
 State University of New York at Buffalo, USA

**Topics and Speakers (B)**

**“Global Health Problems”**

**SPEAKER:** Julian L. Ambrus, Chairman

**COMMENTATOR:** David Tejada-de-Rivero, Assistant Director-General  
 World Health Organization, Geneva, Switzerland

**“Health Problems of West Africa”**

**SPEAKER:** John Grayson, Professor of Physiology  
 University of Toronto, Canada

**COMMENTATOR:** Howard A. Minners, Responsible Officer  
 Office of Research Promotion and Development  
 World Health Organization, Geneva, Switzerland/USA

**“Research in Tropical Medicine and Parasitology”**

**SPEAKER:** N. Ercoli, Head of Department of Parasitology and Chemotherapy  
 Institute of Tropical Medicine, Central University, Caracas, Venezuela

**COMMENTATOR:** Thomas J. Bardos, Professor of Medicinal Chemistry  
 State University of New York at Buffalo, USA

**“Epidemiologic, Etiologic & Immunologic Aspects in Nasopharyngeal Cancer”**

**SPEAKER:** Helmuth Gastpar, Professor of Otorhinolaryngology, Head and Neck Surgery  
 Associate Dean, Faculty of Medicine, University of Munich, West Germany

**COMMENTATOR:** Julian L. Ambrus, Chairman

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**GROUP C: EVOLUTION OF CONSCIOUSNESS**

25 NOVEMBER, SATURDAY—9:00 a.m.



**CHAIRMAN: KARL H. PRIBRAM**  
 Professor of Neuroscience  
 Stanford University, CA, USA

**Topics and Speakers (C)**

**“Evolution of Human Consciousness”**

**SPEAKER:** Harry J. Jerison, Professor of Biobehavioral Sciences  
 University of California at Los Angeles School of Medicine, USA;  
 Visiting Scientist, Medical Research Council, Cambridge, UK

**COMMENTATOR:** M.E. Bitterman, Professor of Psychology  
 Laboratory of Sensory Sciences  
 University of Hawaii-Honolulu, USA

**“Experimental Transference of Consciousness”**

**SPEAKER:** Robert J. White, Professor and Co-Chairman  
 Department of Neurosurgery, Medical School  
 Case Western University, Cleveland, OH, USA

**COMMENTATOR:** Raymond D. Adams, Consulting Visiting Neurologist  
 Massachusetts General Hospital, Boston;  
 Bullard Professor Emeritus of Neuropathology,  
 Harvard Medical School, Cambridge, MA, USA

**“The Evolution of Sexual Consciousness”**

**SPEAKER:** Diane McGuinness, Lecturer in Psychology  
 University of California at Santa Cruz, USA

**COMMENTATOR:** Roger W. Wescott, Professor of Anthropology and Linguistics  
 Drew University, Madison, NJ, USA

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**GROUP D: HUMAN EVOLUTION****25 NOVEMBER, SATURDAY—2:30 p.m.**

**CHAIRMAN: CLAUDE A. VILLEE, JR.**  
Andelot Professor of Biological Chemistry  
Harvard University, Cambridge, MA, USA

**Topics and Speakers (D)****“Saltatory Events in Human Evolution”**

**SPEAKER:** Ernst W. Caspari, Professor of Biology  
University of Rochester, NY, USA

**COMMENTATOR:** Roger W. Wescott, Professor of Anthropology and Linguistics  
Drew University, Madison, NJ, USA

**“Socio-Cultural Evolution”**

**SPEAKER:** W. Bennett Lewis, Professor of Physics  
Queen's University, Kingston, Ontario, Canada

**COMMENTATOR:** John T. Doby, Professor of Sociology and Anthropology  
Emory University, Atlanta, GA, USA

**“A Biotheology of Human Origins”**

**SPEAKER:** Bradley T. Scheer, Professor Emeritus of Biology  
University of Oregon, Eugene, USA

**COMMENTATOR:** Max Hamburg, Director, Program in Atomical Sciences  
Center for Biomedical Education, City College  
City University of New York, USA

# COMMITTEE IV THE PHYSICAL SCIENCES

Commonwealth Room (3rd Floor)

CHAIRMAN  
FREDERICK SEITZ

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GROUP A: PERSPECTIVES OF SCIENCE  
24 NOVEMBER, FRIDAY—11:00 a.m.



CHAIRMAN: ALEXANDER KING  
Chairman, International Federation of  
Institutes for Advanced Study (I.F.I.A.S.)  
Paris, France

## Topics and Speakers (A)

### “Science in the Cause of Man”

SPEAKER: Floyd W. Matson, Professor of American Studies  
University of Hawaii, Honolulu, USA

COMMENTATOR: Jeremy Shearmur, Research Officer, Department of Philosophy  
London School of Economics and Political Science, UK

### “A Physicist’s View of Living Systems”

SPEAKER: Walter M. Elsasser, Adjunct Professor  
Department of Earth and Planetary Sciences  
Johns Hopkins University, Baltimore, MD, USA

COMMENTATOR: Eugene P. Wigner, Conference Chairman

### “Evolution as a Transdisciplinary Paradigm”

SPEAKER: Roger W. Wescott, Professor of Anthropology and Linguistics  
Drew University, Madison, NJ, USA

COMMENTATOR: Panos D. Bardis, Professor of Sociology  
University of Toledo, OH, USA

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**GROUP B: CONTACT WITH EXTRATERRESTRIAL CIVILIZATIONS**  
24 NOVEMBER, FRIDAY—3:00 p.m.



**CHAIRMAN: BULENT ATALAY**  
Professor of Physics  
Mary Washington College  
Fredericksburg, VA;  
Member, Institute for Advanced Study  
Princeton, NJ, USA

**Topics and Speakers (B)**

**“Need and Consequence of the Contact with Extraterrestrial Civilizations”**

**SPEAKER:** George Marx, Professor of Atomic Physics  
Roland Eötvös University, Budapest, Hungary

**COMMENTATOR:** Edward R. Harrison, Professor and Chairman  
Department of Physics and Astronomy  
University of Massachusetts, Amherst, USA

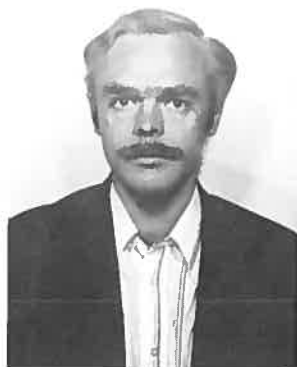
**“Extraterrestrial Intelligence: Starmaker or Yogic?”**

**SPEAKER:** Mael A. Melvin, Professor of Physics  
Temple University, Philadelphia, USA

**COMMENTATOR:** Lloyd Motz, Professor of Astronomy  
Columbia University, New York City, USA

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**GROUP C: SCIENCE AND PHILOSOPHY**  
25 NOVEMBER, SATURDAY—9:00 a.m.



**CHAIRMAN: GUNNAR ANDERSSON**  
Professor of Philosophy  
University of Trier, West Germany

**Topics and Speakers (C)**

**“The Interaction between Philosophy and Science”**

**SPEAKER:** Max Jammer, Professor of Natural Philosophy and History of Science  
Bar-Ilan University, Ramat-Gan, Israel

**COMMENTATOR:** W.W. Bartley III, Professor of Philosophy  
California State University at Hayward, USA

**“Cognitive Progress: The Justificationist, the Relativist and the Preferentialist Views  
in Contemporary Philosophy of Science”**

**SPEAKER:** Gerard Radnitzky, Professor of Philosophy  
University of Trier, West Germany

**COMMENTATOR:** Alberto M. Dou, Professor of Mathematics  
Universidad Complutense, Madrid, Spain

**“Moritz Schlick and the Repudiation of Scientific Realism”**

**SPEAKER:** J.W.N. Watkins, Professor of Philosophy  
The London School of Economics and Political Science, UK

**COMMENTATOR:** Vincenzo Cappelletti, Director General  
Institute of the Italian Encyclopedia, Rome, Italy



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**GROUP D: SCIENCE AND SOCIETY**

25 NOVEMBER, SATURDAY—2:30 p.m.



**CHAIRMAN: MARCELO ALONSO**  
 Director, Department of Scientific Affairs  
 Organization of American States (OAS)  
 Executive Secretary, Inter-American  
 Nuclear Energy Commission,  
 Washington, D.C., USA

**Topics and Speakers (D)**

**“Science and Government”**

**SPEAKER:** S. Fred Singer, Professor of Environmental Sciences  
 University of Virginia, Charlottesville, USA

**COMMENTATOR:** Yuval Ne’eman, Professor of Physics  
 Tel Aviv University, Israel

**“The Opposition of Science”**

**SPEAKER:** Joseph Silverman, Professor and Director  
 Institute for Physical Science and Technology  
 University of Maryland, College Park, USA

**COMMENTATOR:** Werner Becker, Professor of Philosophy  
 University of Frankfurt, West Germany

**“Technology and Culture”**

**SPEAKER:** Emmanuel G. Mesthene, Professor of Philosophy  
 Director, Technology and Society Group  
 Rutgers University, New Brunswick, NJ, USA

**COMMENTATOR:** T. Urbanski, Professor Emeritus of Chemistry  
 Technical University of Warsaw, Poland

## DISCUSSION GROUPS

26 NOVEMBER, SUNDAY—10:00 AM

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### GROUP 1: THE COMPLEMENTARY NATURE OF RELIGION AND SCIENCE FAIRFAX A

**MODERATOR:** SAMUEL S. HILL, JR.  
Professor of Religion  
University of Florida  
Gainesville, FL, USA



**SPEAKER:** Frederick Ferré, Charles A. Dana Professor of Philosophy  
Dickinson College, Carlisle, PA;  
Visiting Research Fellow, The National Humanities Institute  
University of Chicago, IL, USA

**SPEAKER:** Ravi Ravindra, Associate Professor of Physics and Religion  
Dalhousie University, Halifax, N.S., Canada

**SPEAKER:** Miguel R. Covian, Professor of Physiology  
State University of Campinas, Brazil

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**GROUP 2: ABSOLUTE VALUES AND MOTIVATION**  
BEACON A

**MODERATOR: R.V. JONES**  
Professor of Natural Philosophy  
Aberdeen University, Scotland, UK



**SPEAKER:** K.B. Madsen, Professor of General Psychology  
Royal Danish School of Educational Studies, Copenhagen

**SPEAKER:** Peter Molnar, Senior Research Fellow  
Institute of Physiology, University Medical School, Pécs, Hungary

**SPEAKER:** Josef Seifert, Associate Professor of Philosophy  
University of Dallas, TX, USA/Austria

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**GROUP 3: HUMAN NATURE AND ITS MYSTERIES:**  
**WHAT WE KNOW AND WHAT WE NEED TO KNOW**  
COMMONWEALTH

**MODERATOR: A. ROBERT CAPONIGRI**  
Professor of Philosophy  
University of Notre Dame, IN, USA



**SPEAKER:** Morton A. Kaplan, Professor of Political Science  
and Chairman, Committee on International Relations  
University of Chicago, IL, USA

**SPEAKER:** Diane McGuinness, Lecturer in Psychology  
University of California at Santa Cruz, USA

**SPEAKER:** Magoroh Maruyama, Professor of Futures Study, Policy,  
Planning and Design, The Wright Institute, Berkeley, CA, USA

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**GROUP 4: MULTIDISCIPLINARY STUDIES:  
WAYS, MEANS AND APPLICATIONS  
FAIRFAX B**

**MODERATOR: ALFONSO BORRERO, S.J.**  
Executive Director  
Association of Colombian Universities  
Bogota, Colombia



**SPEAKER:** Herman Wold, Professor of Statistics  
University of Uppsala, Sweden

**SPEAKER:** Harry Lustig, Dean of Science  
City College, City University of New York, USA

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**GROUP 5: WORLD INFORMATION NETWORK  
BOARD ROOM**

**MODERATOR: SIR CHARLES MOSES, C.B.E.**  
Past Secretary General  
Asian Broadcasting Union  
Sydney, Australia



**SPEAKER:** Donald M. Lamberton, Head of Department of Economics  
University of Queensland, Australia

**SPEAKER:** John G. Stoessinger, Presidential Professor  
Colorado School of Mines, Golden, USA

**SPEAKER:** Sig Mickelson, Professor of Journalism  
University of California at San Diego, USA

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**GROUP 6: SCIENCE AS AN INSTRUMENT FOR PEACE**  
BERKELEY A & B

**MODERATOR: JOHN S. TOLL**  
President, University of Maryland  
College Park, USA



**SPEAKER:** Minoru Tsutsui, Professor of Chemistry  
Texas A&M University, College Station, USA

**SPEAKER:** Robert C. Brasted, Professor of Chemistry  
and Director of General Chemistry  
University of Minnesota, Minneapolis, USA

**SPEAKER:** André Piatier, Director of Studies  
Ecole Pratique des Hautes Etudes, Paris, France

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**GROUP 7: LIMITS AND DANGERS OF SCIENCE**  
JEFFERSON

**MODERATOR: NICHOLAS KURTI**  
Emeritus Professor of Physics  
University of Oxford, UK



**SPEAKER:** Gordon C. Butler, Director of Biological Sciences  
National Research Council of Canada, Ottawa

**SPEAKER:** Robert Gibrat, President  
Society for Atomic Industry, Paris, France

**SPEAKER:** Grover Maxwell, Professor of Philosophy and Director  
Minnesota Center for Philosophy of Science  
University of Minnesota, Minneapolis, USA

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**GROUP 8: VALUE ASSUMPTIONS IN EDUCATION**  
BEACON B & C

**MODERATOR:** C. ERIC LINCOLN  
Professor of Religion  
Duke University  
Durham, NC, USA



**SPEAKER:** Ervin Laszlo, Professor of Philosophy  
State University of New York at Geneseo;  
Special Fellow at UNITAR, New York City, USA

**SPEAKER:** Frederick E. Sontag, Robert C. Denison Professor of Philosophy  
Pomona College, Claremont, CA, USA

**SPEAKER:** Mary Carman Rose, Chairman of Department of Philosophy  
Goucher College, Towson, MD, USA

**SPEAKER:** John S. Benben, Professor Emeritus of Education Administration  
New York University, New York City, USA

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**GROUP 9: TRANSFER OF SCIENCE AND TECHNOLOGY**  
BEACON D & E

**MODERATOR: MAHMOOD J. NAHVI**  
Visiting Professor of Electrical  
Engineering and Computer Science  
Massachusetts Institute of Technology  
Cambridge, MA, USA/Iran



**SPEAKER:** Sumitro Djojohadikusumo, Professor of Economics  
University of Indonesia, Djakarta

**SPEAKER:** F.B. Malik, Professor of Physics  
Indiana University, Bloomington, USA

**SPEAKER:** D.T.N. Williamson, Engineer and  
Director, Rank Xerox Ltd., UK

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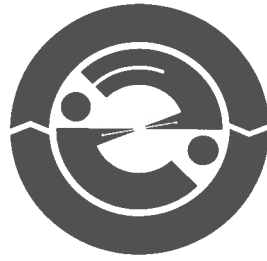
**GROUP 10: CAN HUMAN RIGHTS BE ARTICULATED  
IN OBJECTIVE PRINCIPLES?**  
BEACON G & H

**MODERATOR: SAMUEL KRISLOV**  
Professor of Politics  
Brandeis University  
Waltham, MA, USA



**SPEAKER:** Koentjaraningrat, Professor of Social Anthropology  
Komplex U.I., Djakarta, Indonesia

**SPEAKER:** Francis A. Botchway, Professor of Political Science and  
International Law, University of Cincinnati, OH, USA/Ghana



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